

ABSTRACT OF THE DISCLOSURE

A multi-service-class definition type ATM switch is basically configured by an ATM buffer device containing buffers, a data input/output device and a data processing device. The data input/output device inputs data with regard to a service class including a service category (e.g., VBR, CBR) and a QOS class, which the user needs. The data are transmitted to the data processing device, wherein the data are subjected to analysis. Herein, the data designate a buffer number and a request type, which represents one of three modes. At a data setting mode, the service class is set to the buffer designated by the buffer number within the buffers. Then, the data input/output device displays result of the setting. At a data read mode, the data are read from the buffer designated by the buffer number and are then output (or displayed) by the data input/output device. At a data renewal mode, new data are added to data storage, or unnecessary data are deleted from the data storage, so that the data input/output device displays result of renewal.